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Fundamental theorem

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~~Category Theory 1—  
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We develop Hopf-

Galois theory for

weak Hopf algebras,

and recover analogs

of classical results for

Hopf algebras. Our

methods are based

on the recently

introduced Galois

theory for corings. We

focus on the

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situation where the weak Hopf algebra is a groupoid algebra or its dual.

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Galois theory for  
weak Hopf algebras  
was developed by [7]  
using the language of  
corings which were  
introduced by  
Sweedler in [18].

Weak Hopf-Galois  
extensions were also  
studied in [3] and [10]

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Abstract. We develop  
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weak Hopf algebras,  
and recover analogs  
of classical results for  
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methods are based

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on the recently  
introduced Galois  
theory for corings. We  
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situation where the  
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focus on the  
situation where the  
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a groupoid algebra or  
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theory for weak Hopf  
algebras

Looking to examples  
of depth two, we  
establish that a Hopf  
subalgebra is normal  
if and only if it is a

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Hopf-Galois extension. We characterize finite weak Hopf-Galois extensions using an alternate Galois canonical mapping with several corollaries: that these are depth two and that surjectivity of the Galois mapping implies its bijectivity.

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Galois theory for  
bialgebroids, depth  
two and normal Hopf  
Algebras Arxiv  
...

Hopf Galois theory: A  
survey 369 In the  
case of an  $H$ -action  
on  $A$ , we say a  
subspace  $V \subseteq A$  is  
 $H$ -stable if  $H \cdot V \subseteq V$ .

Dually, if  $H$  coacts on  
 $A$ , a subspace  $V \subseteq A$  is  
 $H$ -costable if  $V$  is an  
 $H$ -subcomodule of  $A$ .

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Assume that  $H$  is  
finite-dimensional. If  $A$   
is a right comodule  
algebra, then it is also  
a left  $H$ -module  
algebra, via  $f \triangleright a = \sum a_1 \langle a_2, f \rangle$

Hopf Galois theory: A  
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Galois theory is  
largely studied in  
several contexts.  
Starting from the

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classical theory,  
where the structures  
are old extensions,  
several authors gave  
new approaches to  
the theory. using  
groups, groupoids,  
Hopf algebras, weak  
Hopf algebras and  
corings (cf.  
[3,7,13{20,  
25{27,30,37]) usually  
acting on algebras.



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Partial (co)actions of  
weak Hopf algebras:  
globalizations ...

Pre-history. Galois'  
theory originated in  
the study of  
symmetric functions –  
the coefficients of a  
monic polynomial are  
(up to sign) the  
elementary symmetric  
polynomials in the  
roots. For instance,  $(x$   
 $- a)(x - b) = x^2 - (a +$

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$b)x + ab$ , where  $1$ ,  $a + b$  and  $ab$  are the elementary polynomials of degree  $0$ ,  $1$  and  $2$  in two variables. This was first formalized by the 16th-century French ...

Galois theory -

Wikipedia

Hopf algebras arrived to the Galois theory of

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rings as early as the  
1960s —  
independently of, but  
in fact similarly to, the  
way in which  
algebraic group  
schemes were  
introduced to the  
theory of étale  
coverings in algebraic  
geometry.

Galois Theory,  
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was developed by [7]  
using the language of  
corings which were  
introduced by  
Sweedler in [18].

Weak Hopf-Galois

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extensions were also studied in [3] and [10] using the language of Hopf algebroids.

Recall from Bohm et al. [4] that a weak Hopf algebra  $H$  is both a  $k$ -algebra  $(m; \cdot)$  and a  $k$ -coalgebra  $(\Delta; \epsilon)$

Finitistic Dimension of Weak Hopf-Galois Extensions

Theorem 1.1 (Greither-



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Pareigis). Hopf Galois structures of  $L/K$  are in one-to-one correspondence with regular subgroups of  $\text{Perm}(X)$  normalized by  $\sigma(G)$ . Moreover, if  $N$  is some such subgroup, the corresponding Hopf Galois structure is given by the  $K$ -Hopf algebra  $L \rtimes [N]G$  and its action over  $L$

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defined by  $\sum_{i=1}^n x_i = 1$   
 $\sum_{i=1}^n c_i x_i = 1$   
 $\sum_{i=1}^n (1 - G_i)(x_i)$

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Hopf Galois module  
structure of dihedral  
degree  $2p$  ...

This Galois theory for  
weak Hopf algebras  
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most involved sellers  
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latest advances and research directions in the theory of tensor categories and Hopf algebras. Primary topics include classification and structure theory of tensor categories and Hopf algebras, Gelfand-Kirillov dimension theory for Nichols algebras, module categories

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and weak Hopf  
algebras, Hopf Galois  
extensions, graded ...

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